

## CS 312: Algorithm Analysis

### Homework Assignment #19

**Question 1** (4 points): Give the reduced cost matrix and the lower bound given the following distance matrix for the TSP problem.

$\infty$	7	3	12
3	$\infty$	6	14
5	8	$\infty$	6
9	3	5	$\infty$

**Question 2** (6 points): Question 9.3 from the book. See section 5.4 of the book for a definition of Set Cover.